

Amendment to the Abstract:

Please replace the Abstract with the following replacement Abstract on a separate sheet following the list of claims:

REPLACEMENT ABSTRACT

Abstract of the Disclosure

A diffractive interferometric optical device is provided for measuring spectral properties of light. The device includes means for coupling in a single spatial mode of an incoming light field to be examined, means for splitting the single spatial mode of incoming light field into at least two partial fields, means for changing one of a shape or a direction of propagation of the wavefront of at least one of the at least two partial fields in dependence on the wavelength and means for generating an interference pattern superimposing the at least two partial fields. The device further comprises detection means to record and evaluate the interference pattern at a plurality of discrete spatial positions in order to derive spectral properties of the incoming light field.